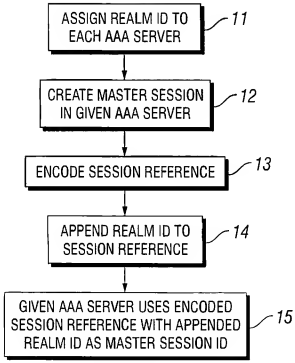
ASSIGN REALM ID TO EACH AAA SERVER
11
CREATE MASTER SESSION IN GIVEN AAA SERVER
12
ENCODE SESSION REFERENCE
13
APPEND REALM ID TO SESSION REFERENCE
14
GIVEN AAA SERVER USES ENCODED SESSION REFERENCE WITH APPENDED REALM ID AS MASTER SESSION ID
15

FIG. 1

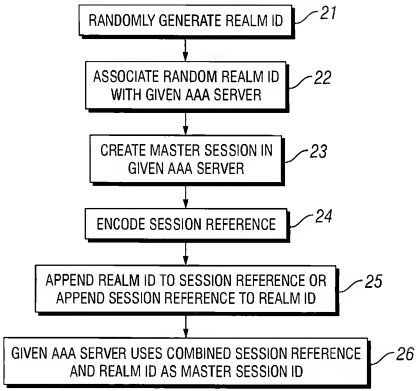
RANDOMLY GENERATE REALM ID
21
ASSOCIATE RANDOM REALM ID WITH GIVEN AAA SERVER
22
CREATE MASTER SESSION IN GIVEN AAA SERVER
23
ENCODE SESSION REFERENCE
24
APPEND REALM ID TO SESSION REFERENCE OR APPEND SESSION REFERENCE TO REALM ID
25
GIVEN AAA SERVER USES COMBINED SESSION REFERENCE AND REALM ID AS MASTER SESSION ID
26

FIG. 2

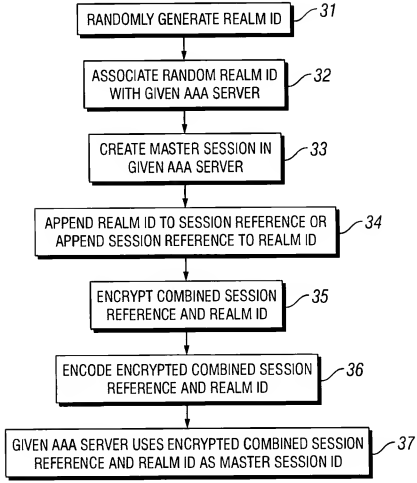
RANDOMLY GENERATE REALM ID
31
ASSOCIATE RANDOM REALM ID WITH GIVEN AAA SERVER
32
CREATE MASTER SESSION IN GIVEN AAA SERVER
33
APPEND REALM ID TO SESSION REFERENCE OR APPEND SESSION REFERENCE TO REALM ID
34
ENCRYPT COMBINED SESSION REFERENCE AND REALM ID
35
ENCODE ENCRYPTED COMBINED SESSION REFERENCE AND REALM ID
36
GIVEN AAA SERVER USES ENCRYPTED COMBINED SESSION REFERENCE AND REALM ID AS MASTER SESSION ID
37

FIG. 3

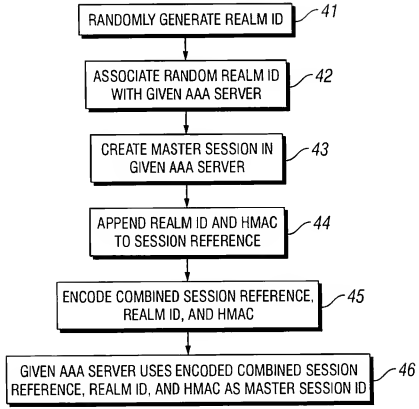
RANDOMLY GENERATE REALM ID
41
ASSOCIATE RANDOM REALM ID WITH GIVEN AAA SERVER
42
CREATE MASTER SESSION IN GIVEN AAA SERVER
43
APPEND REALM ID AND HMAC TO SESSION REFERENCE
44
ENCODE COMBINED SESSION REFERENCE, REALM ID, AND HMAC
45
GIVEN AAA SERVER USES ENCODED COMBINED SESSION REFERENCE, REALM ID, AND HMAC AS MASTER SESSION ID
46

FIG. 4

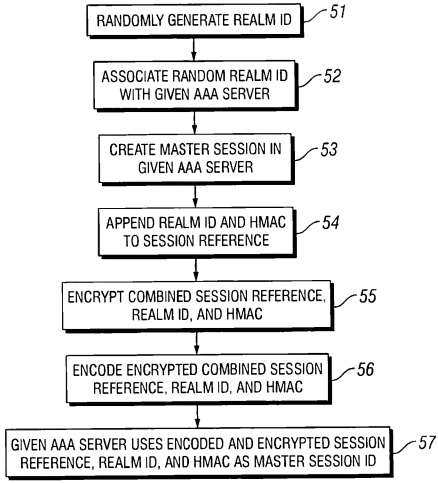
RANDOMLY GENERATE REALM ID
51
ASSOCIATE RANDOM REALM ID WITH GIVEN AAA SERVER
52
CREATE MASTER SESSION IN GIVEN AAA SERVER
53
APPEND REALM ID AND HMAC TO SESSION REFERENCE
54
ENCRYPT COMBINED SESSION REFERENCE, REALM ID, AND HMAC
55
ENCODE ENCRYPTED COMBINED SESSION REFERENCE, REALM ID, AND HMAC
56
GIVEN AAA SERVER USES ENCODED AND ENCRYPTED SESSION REFERENCE, REALM ID, AND HMAC AS MASTER SESSION ID
57

FIG. 5

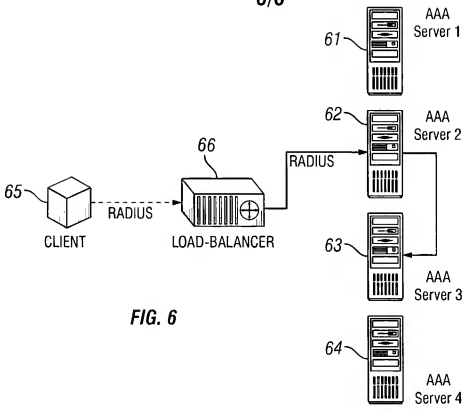
AAA
Server 1
61
62
AAA
Server 2
66
RADIUS
65
RADIUS
CLIENT
LOAD-BALANCER
63
AAA
Server 3
64
AAA
Server 4

FIG. 6

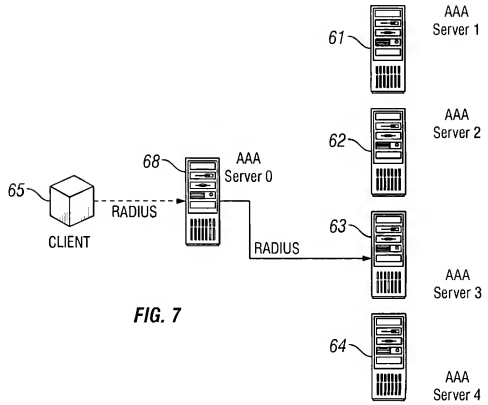
AAA
Server 1
61
62
AAA
Server 2
68
AAA
Server 0
65
RADIUS
CLIENT
63
RADIUS
AAA
Server 3
64
AAA
Server 4

FIG. 7